

THERMOFUSIBLE POLYLACTIC ACID FIBER

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Inventor(s): YOSHITOME HIDEO; OSAKI TAKUJI; KONDO YOSHIKAZU;
KAJIYAMA HIROSHI; MATSUI MASAO; KOSEKI EIICHI; FUJII
YASUHIRO +

Applicant(s): KANEBO LTD; SHIMADZU CORP +

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Abstract of JP 7310236 (A)

PURPOSE: To obtain the subject conjugate fiber by using two kinds of polyactic acid polymers differing in melting point from each other, and suitable as a material for completely biodegradable nonwoven fabrics having sufficient tensile strength, tear resistance and peel strength. CONSTITUTION: The objective thermofusible conjugate fiber is made up of a polyactic acid polymer A having a melting point Ta and containing >=80mol% of L- or D-lactic acid unit and a polyactic acid polymer B having a melting point lower than that of the polymer A by >=10 deg.C or noncrystalline with no melting point; In this case, the polymer A and/or polymer B used is copolymerized with 0.1-15wt.% of at least one compound having polyfunctional group selected from polyethylene glycols >=300 in molecular weight, aliphatic or alicyclic polyhydric alcohols, polycarboxylic acids, and aliphatic, alicyclic or aromatic hydroxycarboxylic acids. The thermofusible conjugate fiber has a multilayer structure such as of sheath-core, side-by-side, multicore, multiparallel, concentric, eccentric, or parabola-type. A biodegradable nonwoven fabric is obtained by hot-embossing treatment of a web of the conjugate fibers.

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